

AXIAL GAP TYPE BRUSHLESS AXIAL-FLOW FAN MOTOR

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EC Classification:

Equivalents:

Abstract

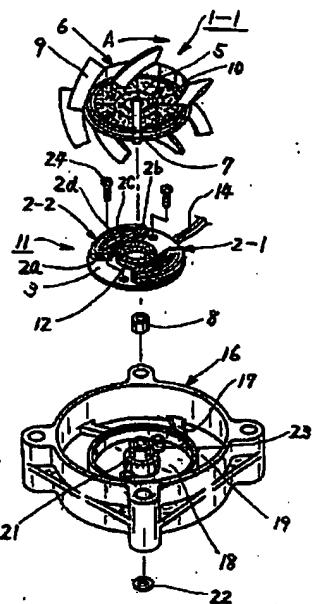
PROBLEM TO BE SOLVED: To obtain an axial gap type DC axial-flow fan motor which can reduce attractive force in the thrust direction, reduce axial load and reduce vibration, noise and a current value.

SOLUTION: A field magnet 5 which has P (P is an integer of one or larger) pairs of N and S poles is provided in a rotary fan 6, which has an impeller 9 blowing in an axial direction. A magnetically levitating singlepole permanent magnet 10, which is magnetized so as to have its N or S-pole oriented in the stator side direction, is provided on the inner circumference of the field magnet 5. A coreless stator armature 11, composed of (n) ((n) is an integer of one or larger) coreless armature coils 2 which are arranged on an armature coil mounting surface 3 facing the field magnet 5, is provided. Magnetically levitating permanent magnets 12 and 12' are provided on the stator side position where the coreless armature stator 11 is provided to have their polarities identical to the polarity of the magnetically levitating permanent magnet 10 which faces the magnetic levitation permanent magnet 10.

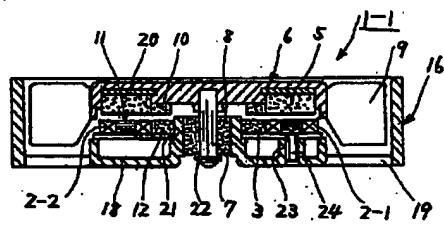
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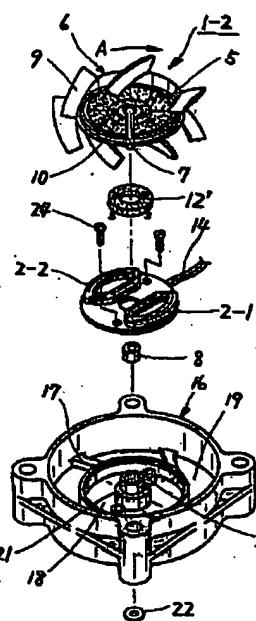
【図1】



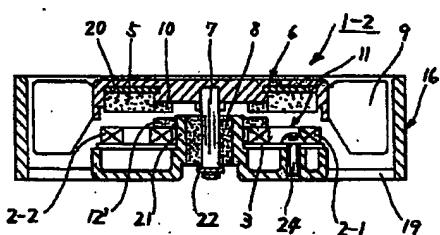
【図2】



【図3】

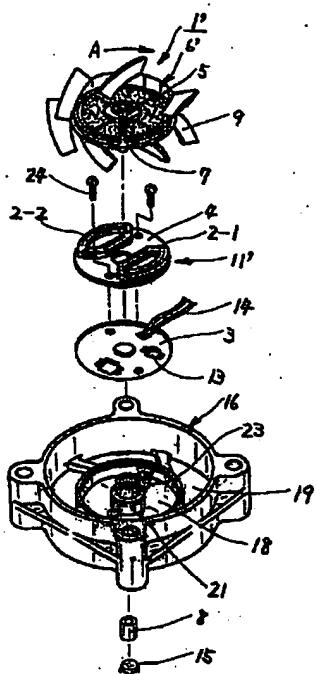


【図4】

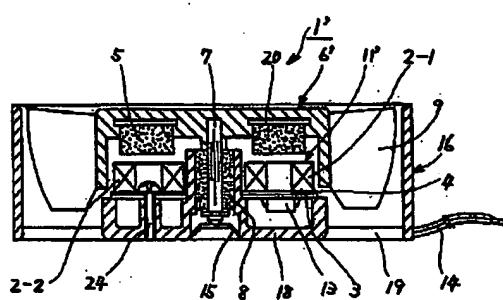


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【図5】



【図6】



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F ターム(参考) 5H019 AA04 AA06 AA09 BB01 BB05
 BB15 CC02 CC09 DD06 EE07
 EE16 FF00 FF01 FF03 GG01
 5H607 AA00 AA04 BB01 BB09 BB13
 CC01 CC05 CC07 FF04 GG01
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